FEMP
FEDERAL ENERGY MANAGEMENT PROGRAM

FOCUS

Special Awards Issue

U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy December 2002

2002 Special Awards Issue

IN THIS ISSUE

THE WHITE HOUSE

WASHINGTON

October 18, 2002

I send greetings to those gathered for the 2002 Federal Energy and Water Management Awards Ceremony. Congratulations to award recipients for your outstanding accomplishments.

As we face new challenges and opportunities, Americans must work together to conserve our vital resources and develop ways to expand our use of renewable energy sources. By enhancing energy and water management at Federal facilities, you help save taxpayer dollars, improve our environment, strengthen our National security, and reduce our country's dependence on foreign sources of energy.

I commend this year's honorees for their leadership and commitment to responsible Federal energy management. Your important work reflects the true spirit of our Nation and contributes to a brighter future for all.

Laura joins me in sending our best wishes.

Special FOCUS on the Federal Awards continues on page 9.

Federal Management Teams Save More Than $100 Million

On October 24, 2002, the 2002 Presidential Awards for Leadership in Federal Energy Management honored five agencies whose leadership efforts with energy conservation have saved more than $100 million and prevented approximately 240,000 metric tons of carbon dioxide from entering the earth's atmosphere.

"The people and projects honored [with this award] . . . show how every action we take—both as individuals and as Federal employees—can cut our nation's energy bill, reduce greenhouse gas emissions, and increase our nation's energy security through greater energy independence," said Energy Secretary Spencer Abraham.

"The President has committed his team to making the government more effective and efficient. The agency teams honored [with the Presidential Award] . . . are exemplary of this commitment. They show that when we spend money wisely, we can also have the added benefit of preserving our natural resources," said Mark W. Everson, Deputy Director of the Office of Management and Budget (OMB).

OMB hosted the event in support of President Bush's National Energy Policy, a nationwide plan to modernize conservation efforts, accelerate the protection of the environment, and increase the nation's energy security. With more than 500,000 buildings and as the largest energy consumer, the Federal government is directed under Executive Order 13123 to promote energy conservation through building design, energy efficiency, and emerging technologies.

(top to bottom) Armed Forces Color Guard; Kyle McSlarrow, Deputy Secretary Designee, DOE; and Raymond DuBois, Jr., Deputy Under Secretary of Defense for Installations and the Environment, DOD; address the audience at the 2002 Presidential Awards.

Descriptions of the recipient teams recognized at a White House ceremony follows on page 3. For more information, please see www.eren.doe.gov/femp/prodtech/awards/awardsprog.html#lead_awards, or contact Annie Haskins of FEMP at 202-586-4536 or annie.haskins@ee.doe.gov.

Many thanks to all our energy management partners for making 2002 a successful year. Your pursuit of excellence in Federal facility management is achieving valuable saving in both Federal energy consumption and taxpayer dollars. We value your partnership and dedication. Thank you, again, for the outstanding contributions you are making to advance Federal energy efficiency and water conservation goals.

— Beth Shearer, Director
Federal Energy Management Program

2002 Presidential Awards for Leadership in Federal Energy Management

U.S. Department of Defense
Navy Shipboard Energy Conservation Team

"Outstanding Performance"

The Navy Shipboard Energy Conservation Team provides the Navy's fleets with new energy conserving technologies, conservation training, strategies, and awareness. The team increased steaming hours at no extra cost by managing fuel consumption and transit speeds and eliminating unproductive energy expenditures. In FY 2001, the team's work resulted in 38,000 hours of additional steaming or avoided energy costs of $41.7 million. This is equivalent to the fuel cost of operating 19 destroyers for an entire year. The team's work captured fuel savings of more than 1 million barrels of fuel oil, similar to removing 68,000 sport utility vehicles from the nation's roads for a year. Installation of stern flaps on 61 ships resulted in estimated savings of 203,000 barrels of fuel. When fully implemented (by 2005), the team's stern flap work alone will save 446,000 barrels of fuel, or $18 million annually.

The Navy's Pacific Fleet avoided costs of $25.5 million from 86 ships, and the Atlantic Fleet saved $16.2 million from 118 ships. Among these, the USS Blue Ridge, a command ship for the U.S. 7th fleet in Yokosuka, Japan, saved more than $2.25 million; the USS Kearsarge increased its steaming hours by 467 percent, reduced fuel consumption by 20 percent, and saved $1.75 million; the USS Cowpens, supporting Operation Noble Eagle in the war against terrorism, avoided costs of $923,000; and the USS Porter, despite increased threat conditions and increased assigned energy requirements, avoided costs of $444,000.

Team Members:

Anthony J. DiGiovanni
Richard H. Griggel
John Hartranft
Neil Lynn
Hasan Pehlivan
Mark Rebold
Alan Roberts
William Stoffel

U.S. Department of Commerce

"Institutionalization"

The Department of Commerce is institutionalizing the goals of Executive Order 13123 with the development of a Strategic Implementation Plan for Energy Management. This plan, fully endorsed by the Department's Senior Energy Official, will engage managers with responsibility for energy and water management within the Department and all of its bureaus. The plan provides guidance on the initiatives, goals, and objectives of the Order and on the resources needed to accomplish these goals. The plan establishes an agency energy team consisting of appropriate procurement, legal, budget, management, and technical representatives of the Department and its bureaus. Implementing the plan will help Commerce achieve additional energy reduction goals and further reduce its $30 million annual utility bill.

Commerce has an excellent energy management program in which all of its bureaus and agencies participate actively. It has four Federal Energy Saver Showcase facilities and has partnered with the U.S. Green Buildings Council (USGBC) for Leadership in Energy and Environmental Design (LEED) certifications on both new construction and building renovations. The Department's National Institute of Standards and Technology's (NIST) project team developed and updated life-cycle cost methodology and software to help the entire Federal government save both energy and money. NIST implemented a site-wide energy conservation master plan. The Department's National Oceanic and Atmospheric Administration (NOAA) facilities are installing real-time metering and will develop an energy demand management program. NOAA biologists teamed with DOE and the City of Seattle to build a water recycling plant that is saving the city 180 million gallons of water and $230,000 in energy costs annually. Because of its effective policies and practices, Commerce has already attained a 34 percent energy reduction in its buildings, exceeding the Executive Order 13123 goal of a 30 percent energy reduction by fiscal year 2005.

Team Members:

Bernie Denno
Douglas F. Elznic
David T. Henry
Mark Kuklewicz
Mike Sade
Karen Thomas
James Woods

U.S. General Services Administration
Public Buildings Service

"Implementation"

The General Services Administration's (GSA) Public Buildings Service (PBS) effectively uses a variety of tools to improve energy efficiency, reduce greenhouse gas emissions, and help Federal agencies meet Executive Order 13123 requirements. Through its extensive national network, PBS built a nationwide program to help all Federal agencies meet energy reduction goals by guiding GSA regional offices in making energy efficiency improvements. GSA categorizes its buildings according to energy efficiency needs, prioritizes project implementation, and provides technical advice or direct funding to regional offices.

PBS highlights include: implementation of seven photovoltaic projects to reduce peak demand; installation of almost $50 million in energy retrofits to achieve savings of more than 1 trillion Btu; awarding of 23 energy savings performance contracts and 21 utility energy services contracts to finance priority projects that will save almost 535 billion Btu annually—enough energy to supply 5,300 typical households for a year; incorporation of Model Green Lease provisions; incorporation of sustainable design principles; and purchasing green power. In FY 2001, GSA purchased 8 gigawatthours of green power—equivalent to almost 7 hours of power used by the entire city of Washington, D.C. By the end of FY 2002, GSA estimates it will purchase 14 gigawatthours of green power and anticipates the total green power purchases in FY 2003 will exceed 32 gigawatthours.

Team Members:

Denise C. Broskey
Linda L. Collins
Karen M. Curran
David B. Eakin
Mark V. Ewing
Donald R. Horn
Kenneth M. Shutika
Laura H. Strohbach
Steven W. White
Debra W. Yap

U. S. Department of Health & Human Services
U.S. Department of the Army
National Cancer Institute/U.S. Army Garrison at Fort Detrick

"Results"

The Partnership for Energy Performance (PEP) is a performance contracting initiative underway at Fort Detrick that is achieving significant reductions in energy and energy-related costs. PEP has a dedicated team consisting of employees from the National Cancer Institute (Department of Health and Human Services), the U.S. Army Garrison, Allegheny Power (the local utility in partnership with Cogenex Corporation), and SAIC Frederick (the operations and technical support contractor for the National Cancer Institute), working together in a public-private partnership to successfully implement facility improvements. Under a utility area-wide agreement, PEP developed a utility energy services contract to acquire energy conservation services and more than $25 million in facility improvements. The goal of PEP in signing this agreement is to help the Fort Detrick facility meet the energy reduction goals of Executive Order 13123.

Through the implementation of the PEP program, Fort Detrick expects to achieve annual energy and maintenance cost savings in excess of $2.9 million. To date, the program has achieved energy and maintenance cost savings of more than $3.6 million and expects to save more than $60 million over the term of the contract. Annual electricity savings exceed 19 gigawatthours and more than 163 million pounds of steam. The PEP program is helping Fort Detrick do its part to improve local air quality, too. Projected savings will result in an annual reduction of 12 tons of carbon monoxide, 22 tons of sulfur dioxide, 42 tons of nitrogen oxides, and 6 tons of particulates. Carbon dioxide emissions will be reduced by nearly 33,000 tons annually—this is equivalent to planting more than 6,500 acres of trees. Almost 340 billion Btu of energy will be saved each year—enough to provide the annual needs of 2,800 typical area households. Nearly 17 million gallons of water will also be saved annually—the equivalent of almost 16 hours of water use by the entire county of Frederick, Maryland, where the facility is located.

Team Members:

Bradley S. Anderson
Donald F. Archibald
David M. Braslau
Dennis J. Dougherty
Richard Ellison
Mitzi Guarino
Gary R. Happel
Darcy L. Immerman
Jean LaPadula
Jack T. Mahon
Kim A. Nusbaum

U.S. Department of Defense
Pentagon Renovation Office

"Outreach"

No program does more than the Pentagon Renovation (PenRen) Integrated Sustainable Design and Constructability (ISDC) Team for public outreach and communication on energy management. This team shoulders responsibility for integrating and balancing sustainable design and energy efficiency with force protection measures necessary to protect the Pentagon. The capabilities of the Pentagon's new energy management control system and energy efficient windows proved invaluable for containing the effects of the September 11th attack on the Pentagon. In 2001, PenRen dramatically improved sustainable construction policies and procedures and became an ENERGY STAR® partner with the Environmental Protection Agency (EPA). The complex nature of projects implemented by PenRen require the ISDC team to incorporate sustainable design into the overall acquisition and management strategy of the program. The acquisition strategy includes innovative concepts—"performance-based" contracting and "design-build"—which are not business as usual for the government.

In addition, PenRen's management implementation strategy involves Integrated Product Teams composed of government and contractor personnel with various duties and responsibilities from many different organizations. PenRen's projects are Federal showcases for sustainable design, environmental protection, energy conservation, and transportation alternatives. The PenRen program hosts facility tours for Federal agencies, sponsors and participates in U.S. Green Buildings Council Leadership in Energy and Environmental Design (USGBC LEED™) training workshops, and is currently assisting USGBC in refining the LEED™ rating system. PenRen actively promotes Federal energy conservation and sustainable design policies at numerous Federal and private sector workshops and conferences, in meetings with local governments, and in communications with industry and national organizations.

Team Members:

Lidia Berger
Bob Cox
Susan Donkers
Joe Eichenlaub
Marc R. Gravallese
Eben Hamilton
Tia Heneghan
Susan Kasun
Daniel A. Lavanga
Florence J. Meyers
John Olejniczak
Mark F. Piedmonte
Teresa R. Pohlman
Michael Pulaski
Jonathon G. Reid
Michael L. Ryon
Alan Smith
Wayne Snesrud
Gregory R. Stortstrom
Gail D. Vittori
Terry G. Watson
Michaella Wright

DOE Marks 23 Years of Energy Management Success

DOE celebrated 23 years of energy efficiency recognition through its annual Departmental Energy Management Awards ceremony on October 22, 2002 in the DOE Headquarters Forrestal Auditorium. The awards were established in 1979 by the In-House Energy Management Program of the Department, which is part of FEMP under the Assistant Secretary for Energy Efficiency and Renewable Energy. Each year, these awards are presented to DOE personnel in recognition of their outstanding contributions toward energy and dollar savings at DOE facilities and field organizations. The 23rd Annual Departmental Energy Management Awards honor individuals and small groups. The efforts of the Departmental Energy Management Award winners in implementing cost-effective operational improvements and energy-efficient retrofit projects for DOE buildings and facilities have contributed significantly to the success in meeting Federal energy reduction mandates. The 2002 Departmental Energy Management Awardees are as follows:

OUTSTANDING INDIVIDUAL EFFORT

Idaho National Engineering and Environmental Laboratory
Kathie Nell

Idaho National Engineering and Environmental Laboratory
Wayne Shigley

SMALL GROUPS

Fermi National Accelerator Laboratory
Fermi National Accelerator Laboratory Pumping Retrofit
Maurice Ball
Steve Barstatis
Steve Dixon
Gregory Gilbert
Duane Plant

Idaho National Engineering and Environmental Laboratory
Energy Research Office Building ENERGY STAR® Label for Buildings
Ernest L. Fossum
Richard J. Horsley
Marshall G. Knight
Mike Nitzel

Lawrence Livermore National Laboratory
Drain-Down Recovery of Heating and Cooling Circulation
Katharine Gabor
Blair Horst
Dick Quigley
John Sarginson

National Energy Technology Laboratory
The Search for "Greener Pastures" Through Increased Energy Efficiency
Bernard M. Avon
Joseph P. Kanosky

Pacific Northwest National Laboratory
Waste Not, Water Not–A Campaign to Conserve Water
Jeffrey A. Lettau
Mike J. Moran, Jr.
Jim Roberts
Keith Shields

Pacific Northwest National Laboratory
Electricity Reduction Contest
Marc Berman
Lori Freeland
Jeff McCullough
Mike J. Moran, Jr.
Curt Nichols

For the full description of DOE's Departmental Energy Management Awardees, please see www.eren.doe.gov/femp/prodtech/awards/awardsprog.html#doeinfo. For additional information, please contact Danette Delmastro of FEMP at 202-586-7632 or danette.delmastro@ee.doe.gov.

2002 Federal Energy and Water Management Awards

Pursuing Federal Energy Efficiency

The recent September 11th anniversary was a painful reminder that America can no longer rely on foreign sources of oil to fuel our country's growing energy needs. Thoughtful use of energy resources is vital to our future for many reasons. Energy efficiency helps improve air quality. Sound facility management offers huge savings that affect the agency's bottom line, the environment, and the workplace.

The Federal government must lead the way in reducing its energy consumption and related environmental impacts, so that the rest of the country may follow suit. For this reason, we look to energy champions who—whether as individuals or as teams—have led their agencies into a better energy future.

The leadership provided by the energy champions often entails overcoming one challenge after another as they pioneer a path that requires complex solutions, new and highly integrated processes, and exceptional team work across organizations. Hard work, innovation, persistence, and vision are characteristic of those who pursue energy efficiency. That is why DOE's Federal Energy Management Program (FEMP) is proud to salute the winners of the 2002 Federal Energy and Water Management Awards.

FEMP Director Beth Shearer addresses the audience at the 2002 Federal Energy and Water Management Awards ceremony.

The 2002 award winners represent the kind of 21st Century thinking that will help achieve widespread Federal energy efficiency. In 1 year, the winners, through a combination of public and private partnerships, saved more than $63.9 million and 4.8 trillion Btu by actively identifying and implementing energy efficiency, water conservation, and renewable energy projects. Through their dedication, hard work, ingenuity, and success, the award winners have also inspired others to increase their own efforts to save energy and water and to more aggressively pursue the use of renewable energy sources. The Federal Energy and Water Management Awards recognize the winners' contributions and ability to inspire others to take action. Please read about these individuals, small groups, and organizations in the following pages. The award winners are the government's energy champions and FEMP is grateful for their pursuit of excellence in facility management. Congratulations to each winner and thanks to each private sector partner.

For more information on the Federal Energy and Water Management Awards, please contact Nellie Tibbs-Greer of FEMP at 202-586-7875 or nellie.tibbs-greer@ee.doe.gov.

The Secretary of Energy
Washington, DC 20585

October 7, 2002

Dear 2002 Award Winners:

President Bush has called on us in the Federal Government to set an example for the rest of the country by using our energy wisely and conserving our precious resources. Our work – improving the energy efficiency of our buildings and increasing the use of renewable energy and technology – is more vital today to our national security than ever before.

You are on the front lines of our efforts, doing excellent work that is worthy of receiving a Federal Energy and Water Management Award. I recognize the dedication you have brought to the job and know you will continue to work hard and with passion to continue our Federal leadership.

I commend you and I thank you.

Sincerely,

Spencer Abraham

Printed on recycled paper

Water Conservation Award to An Organization

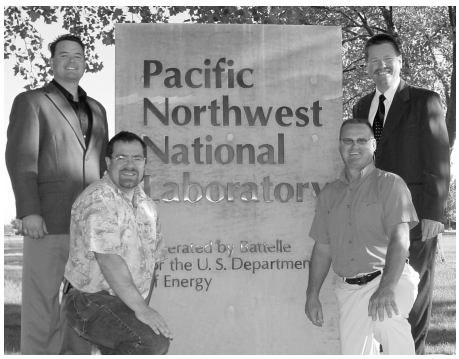
U.S. Naval Activities, United Kingdom
Department of the Navy
London, United Kingdom
011-44-1895616268

Through a major water conservation infrastructure project and the application of water management best practices, U.S. Naval Activities, United Kingdom (NAVACTUK), achieved a stunning 26.5 percent reduction in water consumption from its baseline year. The Command redesigned and replaced main water supplies, and sought and received a rebate for lost sewerage charges from the local water services company. NAVACTUK's $750,000 investment on its water conservation project saved almost 53,000 gallons of water per day, totaling 19 million gallons per year. The project generated annual savings of $110,000 in water and sewerage charges and has a payback period of only 7 years. With the creation of an energy conservation board and innovative Base energy awareness and education activities, conservation has become a priority at NAVACTUK, beginning with the highest levels of the Command mandating the implementation of conservation measures while maintaining military readiness, Command mission, and safety.

Water Conservation Awards to Small Groups

Jeffrey Lettau
Mike Moran, Jr.
Jim Roberts
Keith Shields
Waste Not, Water Not–
A Campaign to Conserve Water
Pacific Northwest
National Laboratory
Department of Energy
Richland, Washington
509-372-2680

During FY 2001, the grounds team at DOE's Pacific Northwest National Laboratory (PNNL) applied state-of-the-art grounds management techniques to maintain the landscape surrounding the PNNL campus. PNNL conserved approximately 114 million gallons of water by using the latest technology to gather data on watering systems, using best-practice landscape methods, monitoring soil moisture, and fertilizing. In addition, PNNL saved approximately 1.5 million gallons of water and subsequently saved almost $3,000 in waste water fees from the city. The facility also avoided sending water into the sewer system, which saved $33,000 in sewer costs. The innovative thinking of this team, which has included the use of predictive water flow models and soil analysis, has yielded substantial environmental, energy, and cost benefits.



(left to right) Mike Moran, Jr., Keith Shields (kneeling), Jim Roberts (kneeling), and Jeff Lettau.

Blair Horst
Katharine Gabor
Dick Quigley
John Sarginson
Drain-Down Recovery of Heating and Cooling Circulating Water
Lawrence Livermore National Laboratory
Department of Energy
Livermore, California
925-423-1640

Using a non-traditional water conservation and cost-savings concept, the DOE Lawrence Livermore National Laboratory's (LLNL) Plant Engineering Instrument Shop and Energy Management Program saved an estimated 72,600 gallons of water per year through their Drain-Down Recovery Project. LLNL's project team came together to prevent water waste during the repair of water circulating systems. The team's drain water recovery program reuses most building system water, as well as anti-corrosion and scale-inhibiting chemicals. The idea of the project is simply to collect drain-down water and return it to the system following repairs, rather than waste it down the drain. The project realized savings in three areas: the cost of water; the costs of anti-corrosion and scale-inhibiting chemicals (which total more than $9,000); and, reduced labor costs (by $52,600). With an amazing payback period of just 3 months, LLNL's project effectively conserves water, prevents pollution, and reduces maintenance costs.

(left to right) Dick Quigley, Katherine Gabor, Blair Horst, and John Sarginson.

Keith Currie
Lieutenant Tammy Gray
Ted Haviland
Robin Mansfield
Michael Noret
17th Training Wing
United States Air Force
Goodfellow Air Force Base, Texas
703-695-9783

Severe drought conditions in San Angelo, Texas, home of Goodfellow Air Force Base, spurred the Base's Water Conservation Team into action during FY 2001. Partnering with the City of San Angelo, the Base adopted the city's water conservation and drought plan, and expanded its own water conservation measures. The Base's Water Conservation Team decreased water consumption by more than 16 percent, saving more than $73,000 in utility charges. Through a $3 million energy savings performance contract (ESPC), the Base has completed $375,000 worth of water conservation projects, installed efficient water fixtures, implemented water-efficient landscaping, and developed and maintained an aggressive water conservation awareness program. With the ESPC, the Base realized a savings of 237 million gallons of water and $48,000 per year. Also, to keep water use to a minimum, more than 60,000 square feet of lawn areas were converted to xeriscape landscaping or rock gardens and 1,300 work orders were completed to stop leaks and replace inefficient water fixtures.

(left to right) Michael Noret, Robin Mansfield, Ted Haviland, and Keith Currie.

Water Conservation Award to an Individual

Donald Lee J. Laurent
Department of the Army
Fort Polk, Louisiana
337-531-6025

Using standard "off-the-shelf" technologies and alternative financing, Donald Laurent has made great strides in saving energy and water at Fort Polk Army Base. Mr. Laurent accomplished three energy conservation measures (ECM) through an established energy savings performance contract. The first ECM involved the replacement of existing toilets, flush valves, showerheads, and faucet and sink aerators in 31 permanent barracks buildings. For the second ECM, Mr. Laurent took over the Base clothes washer and dryer contract which allowed him to replace existing vertical axis washers with high-performance horizontal axis washers. The third ECM involved the installation of hot water loop controls, which control temperatures by recognizing low demand and anticipating high demand. Mr. Laurent's efforts have saved the Base almost $293,000 in energy and water costs and reduced the amount of associated wastewater that must be treated. By implementing Mr. Laurent's energy conservation measures at no up-front cost to the Federal government, Fort Polk saved 134,575 kilowatthours of electricity, 55 million gallons of water, and avoided treatment of 53 million gallons of wastewater.

Mobility Energy Efficiency Awards to Organizations

USS KEARSARGE
Department of the Navy
757-445-5028

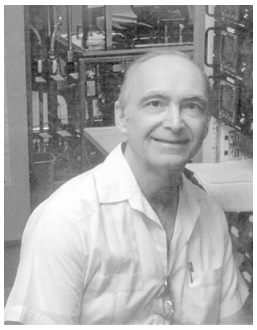
By implementing outstanding engineering and conservation practices, such as reducing the use of high energy-use equipment, and modifying schedules to process waste more productively, USS KEARSARGE reduced hourly fuel consumption during FY 2001 by more than 20 percent, saving 1.7 million gallons of fuel and almost $1.8 million. The reduction in fuel demand was achieved while increasing steaming time by 468 percent in an increased threat condition posture. USS KEARSARGE used 2,368 gallons of fuel per hour underway at 15 knots and 564 gallons per hour in auxiliary steaming mode, reduced from FY 2000 when it consumed 3,773 gallons per hour underway and 821 gallons per hour in auxiliary steaming mode. USS KEARSARGE's all-hands approach to energy conservation helped to reduce non-productive steaming hours by 220 hours, saving 220,000 gallons of fuel and $145,000. Without compromising its responsiveness, the ship's energy team developed seamless and extensive conservation management projects that have brought substantial benefits to the USS KEARSAGE, its personnel, and the Fleet.

USS BLUE RIDGE
Department of the Navy
011-81-6160-21-1911 x7705

In spite of increased threat conditions, the USS BLUE RIDGE's energy team delivered dramatic energy and budget savings during FY 2001. The USS BLUE RIDGE saved $2.3 million and 1.5 million gallons of fuel, an impressive 50 percent improvement over the previous year's fuel use levels. Through the application of diligent conservation engineering, the use of electronic controls, improved boiler and main engine operation, and with the help of a command-to-enlisted commitment to Fleet leadership in energy conservation, the USS BLUE RIDGE energy team dramatically reduced emissions, fuel use, and water pollution. Additionally, the USS BLUE RIDGE's 24-hour engineering trouble call log has significantly reduced turn-around time on fixing leaks and mitigating other energy conservation deficiencies.

Mobility Energy Efficiency Award to an Individual

Hugh Jones
Center for Army Analysis
Fort Belvoir, Virginia
703-806-5389



Hugh Jones spearheaded the development of several photovoltaic (PV) mobile power systems for the Department of the Army. These lightweight, thin-film PV modules are designed to provide flexible, rapidly-deployable mobile power systems for the Army's tactical operations in training areas or on the battlefield. Mr. Jones has championed PV and other renewable technologies, and developed a successful joint venture with a private industry partner. His initiative and technical analysis of PV systems advanced the project quickly through the feasibility and analysis phases of production. During FY 2001, the Army developed and field-tested a second-generation PV-powered mobile system, which provided 100 percent of the power required for the Army's tactical operations. These systems have provided numerous benefits to the Army such as reduced fuel consumption and costs, decreased maintenance on generators, and enhanced operational readiness.

Alternative Financing Awards to Organizations

Veterans Affairs Salt Lake City
Health Care System
Department of Veterans Affairs
Salt Lake City, Utah
801-582-1565, x4530

During FY 2001, the Veterans Affairs Salt Lake City Health Care System used energy savings performance contract financing to implement wide-ranging energy conservation measures, making the medical facility a showcase for integrating energy-saving strategies. The measures included current technologies—lighting, controls, and chiller plant upgrades—as well as new technologies such as a rotoclave medical waste sterilizer. Improvements also included refurbishment and expansion of a solar hot water system and a utility rate reduction. Training was also required for operations and maintenance staff, ensuring continued energy savings for the projects. The control system upgrades have improved the ability to monitor, measure, and manage the site's energy use. The energy conservation measures now in place have resulted in dramatic reductions in energy use, with an annual energy savings of 50.7 billion Btu—a decrease of 24 percent—and a guaranteed annual cost savings of $493,000.

42nd Civil Engineering Squadron
Maxwell Air Force Base and Gunter Annex
United States Air Force
Maxwell Air Force Base, Alabama
334-953-6945

The men and women of the 42nd Civil Engineering Squadron at Maxwell Air Force Base and Gunter Annex have dedicated themselves to meeting the many energy conservation challenges at the Base. The group used an energy savings performance contract to implement seven energy saving projects, which resulted in $12.7 million in capital improvements. Some of the projects included decentralization of the central heating plant; automation of the central chiller plant; installation of lighting controls and high-efficiency lighting; and upgrading of energy management control systems, air handler units, and freezers. These measures are estimated to result in a cost savings of more than $1.4 million and an energy savings of 1,300 billion Btu per year.

7th Civil Engineer Squadron
Dyess Air Force Base
United States Air Force
Dyess Air Force Base, Texas
915-696-5628

In its ongoing efforts to meet challenging energy performance standards, the 7th Civil Engineer Squadron Operations Flight implemented a $5.4 million energy savings performance contract, saving more than 46 billion Btu and more than $682,000 per year while reducing energy use by 8.7 percent. The 7th Civil Engineer Squadron retrofitted 26 steam boilers and 5 air conditioning systems, installed an ice storage system for peak load shedding, added direct digital controls in 20 buildings, and replaced old T-12 magnetic ballast fluorescent bulb technology with new T-8 bulbs in 101 buildings. Lighting levels in the B-1 engine repair shop were improved by more than 400 percent, adding greatly to employee comfort and productivity. Two additional projects have started, which will further reduce energy consumption and demonstrate the 7th Civil Engineer Squadron's commitment to making Dyess Air Force Base a showcase for energy conservation.

Marine Corps Base
Camp Pendleton
United States Marine Corps
Camp Pendleton, California
760-725-0566

Marine Corps Base Camp Pendleton aggressively uses alternative financing to implement energy conservation projects. Since 1996, the Camp has awarded 25 delivery orders under a utility energy services contract (UESC) with San Diego Gas and Electric, totaling more than $30 million in project costs. This year, two projects totaling almost $6 million were awarded through the UESC vehicle resulting in an estimated 67 billion Btu in annual energy savings and $3 million in annual cost savings. UESC vehicle projects include upgrading direct digital controls, replacing electric dryers with gas dryers, replacing inefficient furnaces and HVAC units, and installing natural day lighting. President Bush visited Camp Pendleton in May 2001 and congratulated the Base for aggressively implementing energy conservation opportunities and reducing Base operating costs.

Marine Corps Air Station Yuma
United States Marine Corps
Air Station Yuma, Arizona
928-269-2734

Marine Corps Air Station Yuma is using alternative financing as its primary strategy to accomplish energy conservation projects. Working closely with the local utility, Arizona Public Service, the work done during FY 2001 through a utility energy services contract used eight different energy conservation technologies ranging from a direct digital control installation to more simple measures, such as installing light-emitting diode technology to replace incandescent lighting in fire alarm transmission boxes. Total project costs were less than $1.5 million, which results in a simple payback period of 7.9 years. Projected savings from the project are almost $186,000 and more than 10 billion Btu annually.

Camp Lejeune
United States Marine Corps
Camp Lejeune, North Carolina
910-451-5950

Camp Lejeune, the largest Marine Corps base in the world, used a team approach to tackle its biggest energy efficiency investment ever. A $16 million utility energy service contract project upgraded 2,093 air-to-air heat pumps and cut energy use by 33 percent in four family housing areas by replacing old heating and cooling equipment with geothermal heat pumps. Annual savings of almost $1.5 million from the new ground coupled heat pumps will amortize the financed portion of the investment, about $12.7 million, in 10 years. A ground coupled heat pump upgrade was implemented in 2,089 of the 4,400 military family housing units during FY 2001. Total FY 2001 savings as a result of the upgrade are more than $184,000 and more than 24 billion Btu during the construction year.

Alternative Financing Awards to Small Groups

Mitchell Akers
Paul Anderson
Perry L. Boeschen
Suvit S. Boyd
Robert Considine
Des Moines Energy Conservation Project
General Services Administration
Des Moines, Iowa
816-823-2275

The General Services Administration's (GSA) Des Moines team maximized energy-saving opportunities by using a "whole building approach" to energy reduction at the Des Moines Federal Building. Using Super Energy Savings Performance Contract financing, the team implemented several different projects at the site. The measures completed under the $1.4 million project include replacement of the entire steam boiler plant, conversion of multi-zone air handling systems to variable air volume flow, removal and replacement of steam traps, installation of water-conserving fixtures, and securing rate reduction for natural gas. The project also included installation of vending machine controllers. The controllers project served a double purpose—as an energy saving measure as well as a "pilot project"—a model that can be duplicated in other GSA facilities in the Heartland Region. Because of the various measures taken, the facility's energy consumption is guaranteed to be reduced by 6.5 billion Btu annually, with cost savings of $67,000.

Kenneth J. Cargil
Terry A. Sims
Bill Weinberg
Steve E. Moore
Edward T. Adams
Austin Service Center ESPC
Internal Revenue Service
Department of the Treasury
Austin, Texas
512-460-8014

The Internal Revenue Service's area-wide shared services group obtained energy savings performance contract financing to complete numerous upgrades at the Austin Service Center, resulting in dramatic energy savings for the facility. The group tackled three major areas of energy use for the facility: electricity for air conditioning and electricity for lighting and water use. For the chilled water system, installation of a new chiller, along with other measures, created a highly efficient and reliable system to serve the entire facility. The group also completed replacement and retrofits of lighting fixtures, lamps, and ballasts. Water conservation markedly improved through the installation of high efficiency fixtures which use less than half of the water as compared to the old fixtures. Through the efforts of the group, the facility has achieved annual energy savings of more than 20 billion Btu and 2.1 million gallons of water, and a cost savings of $310,000 per year.

(Back row, left to right) Kenneth Cargil, Steve Moore, William Weinberg. (Front row, left to right) Edward Adams, and Terry Sims.

Florine Rhodes
Sek Eng
Ricardo Cabanit
Josef Yannotti
Louis Lozito
Varick Street Building Modernization Group
General Services Administration
New York, New York
212-264-7379

By combining agency-funded work and utility-financed work into a single project, the Varick Street Building Modernization Group accomplished a variety of overdue measures at the facility. The building faced imminent replacement of its chillers (which used CFC refrigerant), and needed other energy-saving upgrades. Through the use of a General Services Administration (GSA) area-wide utility contract, the group combined both the chiller replacement (an agency-funded project) and utility-financed measures in one contract. The other energy-saving measures included a new energy management control system; variable frequency drives and energy-efficient motors; and energy-efficient lights. The group expects annual savings of more than $431,000, and energy savings of more than 14.8 billion Btu as a result of the steps taken. The cost savings will allow payback of the total project cost, including interest, in less than 10 years. By integrating the funded and financed work into one project, the GSA team demonstrated that agencies do not have to defer energy conservation or facility upgrade work because of a lack of full funding. In fact, the financing strategy taken at the facility has been replicated in two other GSA locations and has become an option considered frequently at GSA facilities.

(left to right) Ricardo Cabanit, Louis Lozito, Florine Rhodes, Sek Eng, and Josef Yannotti.

Belton O. Tisdale
Lieutenant Junior Grade
Nolan E. Redding
Beaufort Housing Geothermal
Heat Pump Project
United States Marine Corps
Air Station Beaufort,
South Carolina
843-228-6317

During FY 2001, Marine Corps Air Station Beaufort, home to seven Marine and two Navy F/A-18 fighter squadrons, entered into a basic ordering agreement with a local utility company to replace old HVAC and hot water generating equipment with geothermal heat pump systems that provide heating, cooling, and domestic hot water. The geothermal upgrade took place in 1,236 of the 1,276 military family housing units on the base. Installation of this $11.5 million utility energy services contract project cut energy use by 25 percent in family housing. During FY 2001, the project saved more than $52,000 and almost 5 billion Btu. FY 2002, energy reductions are estimated to exceed 40 percent.

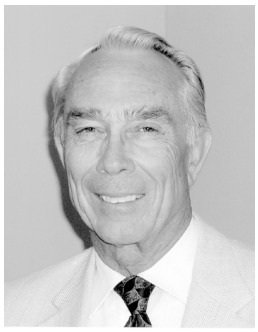
John Robison
Mark A. Waite
Oliver Wood
Michael Friedman
Lisa Marx
434th Air Refueling Wing
United States Air Force
Grissom Air Reserve Base, Indiana
765-688-4565

Members of the 434th Air Refueling Wing at Grissom Air Reserve Base have made top-flight progress in implementing the policy and directives of Executive Order 13123 during FY 2001. The outstanding performance of the 434th Air Refueling Wing in energy efficiency is exemplified in the 56 percent reduction in energy use from FY 2000 to FY 2001, and an overall reduction of 64 percent since FY 1985. The successful completion of an energy savings performance contract project, through effective planning and preparation by Base engineers, and the negotiation, award, and administration by Base contracting, resulted in improvements that will continue to pay significant dividends long into the future. The project installed energy-efficient lighting and heating equipment, affecting virtually all Base buildings. It was the vehicle by which Grissom's outdated and inefficient central heating plant could be permanently removed from service. Total cost and energy saved during FY 2001 was more than $1 million and 168 billion Btu.

(left to right) Mike Friedman, John Robison, Lisa Marx, Oliver Woodd, and Mark Waite.

Alternative Financing Awards to Individuals

Bill R. Coursey
Office of Facilities Management
Bureau of Indian Affairs
Department of the Interior
Albuquerque, New Mexico
505-346-6511



With utility bills exceeding $450,000 annually, Bill Coursey recognized that Sherman Indian High School, which was constructed in 1900 and serves Native American children, needed repairs and improvements. Through DOE's Super Energy Savings Performance Contract (ESPC), Mr. Coursey accomplished energy conservation improvements that included lighting, heating, ventilation, and a renewable energy photovoltaic system. In addition to the energy conservation measures achieved through the Super ESPC project, Mr. Coursey has been responsible for other energy saving successes achieved by the Bureau of Indian Affairs. Mr. Coursey's efforts have helped the Bureau of Indian Affairs achieve savings during FY 2001 of more than 8 billion Btu and more than $179,000.

William H. Nutting
United States Marine Corps
Kaneohe Bay, Hawaii
808-257-2171 x255

William H. Nutting, Energy Manager at the Marine Corps Base at Kaneohe Bay, oversaw a hot water decentralization project which generates domestic hot water by reclaiming waste heat from air-conditioning chillers, instead of running two large oil-fired steam plants. Mr. Nutting researched various options for improving the existing steam and hot water distribution plants, which were in poor condition and needed replacement. He successfully financed the $3.5 million necessary for the project through an energy savings performance contract (ESPC). The scope of the project also included the installation of two small modular boilers to provide steam for cooking and sterilization needs. The project saves 24.5 billion Btu of energy, and more than $590,000 per year. Due to the success of the project, the plan for new bachelor enlisted quarters at Kaneohe Bay also calls for a central plant which will use waste heat to provide water heating. Mr. Nutting continues to seek economical ways to achieve further energy conservation measures at the Base, and has initiated three other ESPC task orders at Kaneohe Bay in addition to the hot water decentralization project.

Gary R. Testerman, Sr.
Department of the Army
Aberdeen Proving Ground, Maryland
410-306-1151

Gary Testerman demonstrated his steadfast commitment to energy conservation at Aberdeen Proving Ground with a geothermal heat pump replacement project. Faced with failing air-to-air heat pumps in housing units and no funding available for their replacement, Mr. Testerman looked to alternative financing as a solution. Though first unfamiliar with energy saving performance contract (ESPC) financing, Mr. Testerman solicited other Federal agencies for assistance and support for the project. Through his efforts, a Super ESPC was used to replace 643 aging heat pumps in housing units with new geothermal systems and install desuperheaters (used to lower the temperature of superheated steam) to existing domestic hot water heaters to obtain additional energy savings. In total, the measures taken are expected to yield savings of $600,000 and 29 billion Btu per year. Mr. Testerman's efforts on this project, however, are just one example of his tireless work for energy conservation at Aberdeen Proving Ground. He continually ensures that his Command and community are educated about the importance of saving energy. His vision and passion for saving energy are an inspiration to his colleagues and the entire Aberdeen community.

Keith Yamanaka
U.S. Army Directorate of the Public Works
Department of the Army
Schofield Barracks, Hawaii
808-656-1410

Keith Yamanaka, Energy Manager at the U.S. Army Directorate of the Public Works, was the initiator and champion of the 25th Infantry Division's utility energy services contract (UESC) project in Hawaii. Mr. Yamanaka led this project, a partnership between the U.S. Army and Hawaiian Electric Company, to design and construct a central 600-ton centrifugal chiller, cooling tower, condenser pump, chill water pump, and piping replacement. A second part of the UESC called for the installation of solar heating systems on 610 family housing units, 39 recreation cabins, and a fire station. This was the largest one-time installation of solar heating systems to take place anywhere in the country. These projects saved more than $1 million and close to 15 billion Btu during FY 2001.

Renewable Energy Awards to Organizations

U.S. Army Intelligence Center and Fort Huachuca
Department of the Army
Fort Huachuca, Arizona
520-533-1861

During FY 2001, the United States Army Intelligence Center and Fort Huachuca achieved a 270 percent increase in the use of renewable energy from FY 2000. Fort Huachuca also reduced water consumption by 8.2 percent (50 million gallons). Fort Huachuca achieved these successes through the positive efforts of all organizations and a concerted effort to implement cost-effective energy conservation, water conservation, and renewable energy projects. More than $44,000 and 4 billion Btu were saved during FY 2001. The most innovative aspect of this project was the use of an energy savings performance contract to install renewable energy technologies. Project work included replacing an inverter on a grid-tied photovoltaic system and installing new mirrors and controls on a prototype solar thermal electric generator. Other projects included installing high efficiency lighting in 33 buildings, daylighting in 22 buildings, 2 Solarwalls, and replacing the HVAC system and controls. Fort Huachuca continued water conservation projects by installing 1.5 gallon-per-minute showerheads and 130 horizontal axis washing machines. Fort Huachuca's Water Wise and Energy Smart Program provided water and energy conservation education and outreach services to the U.S. Army and civilian employees and their families.

Green Power Switch®
Tennessee Valley Authority
Nashville, Tennessee
615-232-6124

Green Power Switch® is a renewable energy initiative that offers consumers in the Tennessee Valley a choice in the type of power they buy. The Tennessee Valley Authority and local public power companies, working in cooperation with the environmental community, developed Green Power Switch® as a way to bring green power—electricity generated by cleaner, renewable resources—to Valley consumers. Green power is sold to residential consumers in 150-kilowatthour blocks (about 12 percent of a typical household's monthly energy use). Each block adds $4 to the customer's monthly power bills. Green Power Switch® is also being marketed to commercial and industrial consumers, who can buy blocks based on the amount of energy they use. Currently there are more than 5,000 residential customers signed up for almost 9,000 blocks of green power per month, and 226 business and commercial customers signed up for more than 6,000 blocks per month. Sources of green power include energy from a wind-powered turbine, solar generation, and a landfill methane gas site. Although no source of energy is impact-free, an investment of an additional $8 per month on a homeowner's power bill buys enough green power to equal the environmental benefits of planting an acre of trees in the Tennessee Valley.

Renewable Energy Awards to Small Groups

Martin Kaehny
John Nicely
Meg Walkup
Eastern Neck National Wildlife Refuge
U.S. Fish and Wildlife Service
Department of the Interior
Rock Hall, Maryland
410-639-7056

The staff from Eastern Neck National Wildlife Refuge in Rock Hall, Maryland, are recognized for providing renewable energy educational opportunities and demonstration projects to visitors and the surrounding community. Among several projects, a 10-kilowatt wind turbine was installed in March 2002 at the Refuge's office near the shore of the Chesapeake Bay. Although the wind turbine will be grid-connected, it is expected to provide close to 100 percent of the building's power needs during high-wind months. An estimated $1,700 in savings from electricity offsets will be achieved, based on the 2001 average price of $0.13 per kilowatthour. Another project involved the installation of two solar energy photovoltaic demonstration panels. A 120-watt solar panel was installed, powering a recirculating pump for a Refuge pond. Another 80-watt panel stores solar energy in a battery that powers a 32-watt parabolic floodlight, illuminating the American flag at night. The Refuge team also has purchased an alternative-fuel van that can run on 85 percent ethanol. Additionally, the Refuge has sponsored a public workshop on renewable energy in Chestertown, Maryland, that received enthusiastic response from the local community and media.

Chris Helmer
Jerry Martin
Michael C. Okoro
Northwest Arctic Region
General Services Administration
Wenatchee, Washington
253-931-7945

In partnership with DOE, the General Services Administration's (GSA's) Northwest/Arctic Region installed and commissioned a 10-kilowatt photovoltaic system at the Federal Building and U.S. Post Office in Wenatchee, Washington. DOE provided funding for the studies and the design of the project, while GSA funded the purchase of the photovoltaic (PV) panels and ancillary equipment. The GSA Regional Office also conducted a PV system installation workshop and used volunteers for the installation of the system so that they could gain hands-on experience. The PV system will produce approximately 16,000 kilowatthours per year, which is enough energy to power an average family home. By installing the system, GSA is helping to preserve the environment by reducing greenhouse gases such as carbon dioxide, sulfur dioxide, and nitrogen oxide.

Chris Helmer

Michael Okoro

Vicki Hutchinson
Marcelo Silva
U.S. Embassy Brasilia Energy Project Group
Department of State
U.S. Embassy Brasilia, Brazil
011-55-61-312-7150

About 95 percent of all the electricity generated in Brazil comes from hydroelectric plants. Shortage of rainfall in consecutive years resulted a mandatory water reduction for all consumers. To achieve this reduction and avoid government fines, the State Department's American Embassy Brasilia installed solar water heaters at all Government-owned residences and the Embassy building. The solar project reduced energy consumption by 28 percent in the residences and by 15 percent at the Embassy, based on average energy use. Almost $12,000 is being saved annually at the Embassy. The payback of the total investment will occur in 6 years and its expected life is at least 15 years. This project has enabled the American families living in the Government-operated residences in Brasilia to have their electricity supply guaranteed, despite the ongoing power crisis in Brazil, and will save the U.S. Government more than $112,000 over the 15 year time frame.

Vicki Hutchinson

Marcelo Silva

Renewable Energy Award to an Individual

Wayne Shigley
Idaho National Engineering and Environmental Laboratory
Department of Energy
Idaho Falls, Idaho
208-526-1986

In the late 1990s, the Idaho National Engineering and Environmental Laboratory (INEEL) began plans to replace an aging warehouse on the INEEL site with a new, modern facility in Idaho Falls. Wayne Shigley, Infrastructure Program Manager for DOE's Idaho Operations Office, saw an opportunity to install a transpired solar collector in support of the Million Solar Roofs Initiative. Mr. Shigley worked tirelessly to secure funding for the initial cost, based on the potential for life-cycle cost savings and demonstration value. He successfully convinced the project team, who were new to the technology, to design a transpired solar collector to passively pre-heat the fresh air supply. In addition, Mr. Shigley worked with the INEEL energy management office to add an instrumentation package to track the performance of the system over time. The building was completed in May 2001, and the instrumentation package was installed in August 2001. The total energy cost savings is $12,500 and 945 million Btu per year.

Energy Efficiency/Energy Management Awards to Organizations

Aberdeen Proving Ground
Department of the Army
Aberdeen Proving Ground, Maryland
410-306-1151

Strong Command support and community involvement, coupled with sound technical initiatives, allowed Aberdeen Proving Ground to obtain a significant energy reduction in the face of rapid facilities growth. Through DOE's national geothermal heat pump Super Energy Savings Performance Contract, Aberdeen awarded a delivery order of $5.7 million to replace 643 existing air-to-air heat pumps with geothermal heat pumps in Aberdeen's Bayside Village and Patriot Village military family housing facilities. Aberdeen Proving Ground has implemented nine energy conservation measures under the delivery order that include lighting and insulation upgrades and centrifugal chillers retrofit. Annual savings resulting from the delivery order are $1.74 million and more than 173 billion Btu.

I CORPS & Fort Lewis
Department of the Army
Fort Lewis, Washington
253-967-2837

In response to West Coast electricity reliability issues, Fort Lewis implemented extraordinary measures both unilaterally and in partnership with the local electric utility, Tacoma Power, DOE, and the Army/Air Force Exchange Service to reduce overall electric demand. The Fort was able to implement strategic energy conservation and demand reduction measures quickly with the support of Command level interest. Energy reduction strategies included installing VendingMiser® technology on refrigerated vending machines, installing compact fluorescent light bulbs in family housing units, providing for energy conservation as part of the Command Inspection program, developing a team to oversee the efficient use of existing HVAC equipment, and providing on-going energy awareness training for troop personnel. Savings of $587,000 and almost 80 billion Btu were achieved at Fort Lewis during FY 2001.

Naval Support Activity
Portsmouth Naval Shipyard
Department of the Navy
Kittery, Maine
207-438-4632

The Naval Support Activity Portsmouth Naval Shipyard energy team manages more than 156 buildings that provide residence and workspace for about 400 people. During FY 2001, they saved more than $3.8 million and almost 217,000 million Btu of energy and 25 million gallons of water through the use of technology and smart energy management. The Naval Shipyard's savings are directly attributable to conservation investments such as power plant and distribution improvements, upgraded mechanical lines, central hot water distribution upgrades, building renovations, lighting controls, window insulation, and fuel switching. Energy managers also saved money during FY 2001 through smart management of natural gas and fuel oil switching strategies as well as through the use of a steam turbine. The Naval Shipyard will attain even greater savings in years to come, as other energy and cost saving projects are still being implemented and are already generating substantial savings.

Presidio Trust Summer Initiative
Presidio Trust
San Francisco, California
415-561-4284

As a resource protection organization, the Presidio Trust has always sought ways to minimize environmental impact and conserve water and energy, so it seemed natural for the organization to seek a creative financing solution that would help the Presidio save energy. In July 2000, the California Public Utilities Commission offered financing through a "Summer Initiative," which sought to achieve significant demand and energy reductions by summer 2001. Identifying opportunities to save hundreds of thousands of kilowatthours each year, the Presidio Trust formulated a plan for retrofitting both residential and non-residential buildings with energy-efficient lighting, controls, and energy management systems under the Summer Initiative. An extensive outreach campaign was also part of the Initiative. The Presidio faced added challenges from its designation as a National Historic Landmark, which requires the Presidio to be managed in compliance with historic guidelines, which at times are at odds with conservation goals. Despite the Presidio's hurdles, the lighting retrofits and outreach efforts were a success and will save the organization more than 1 million kilowatthours and $165,000 annually.

Energy Efficiency/Energy Management Awards to Small Groups

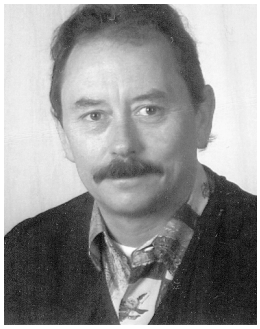
Marc Berman
Lori Freeland
Mike J. Moran, Jr.
Jeff McCullough
Curt Nichols
Pacific Northwest National Laboratory
Electricity Reduction Contest
Department of Energy
Richland, Washington
509-376-2971

DOE's Pacific Northwest National Laboratory (PNNL) has made conservation and energy efficiency key elements of its Facility Energy Management Plan. As part of their Plan, PNNL challenged staff to reduce electricity use by 10 percent from the previous year. To provide an incentive, the group devised a contest, and gave the staff tips and guidance on how to accomplish the reductions in their buildings. Over a 3-month period, the group compared metered electricity use in several key office buildings with figures from the previous year. The staff feedback indicated that the program was popular as well as successful, and will have a lasting impact on workers' habits. Results exceeded expectations and two of the buildings reduced electricity consumption by 37.8 percent during the contest period. Savings amounted to $16,400 and more than 1.4 billion Btu.

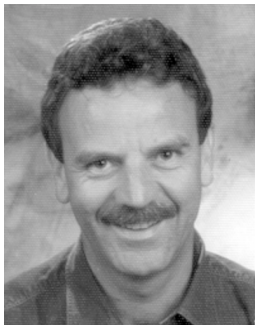
(left to right) Marc Berman (kneeling), Mike Moran, Lori Freeland, Jeff McCullough (kneeling), and Curt Nichols.

Bob Ackley
Dieter Haertel
Paul Lindemer
415th Base Support Battalion
Department of the Army
Kaiserslautern, Germany
49-631-411-8122

Using their expert knowledge, experience, and innovation, this small group at the 415th Base Support Battalion has assisted in the development and execution of numerous energy projects at the Base. Projects during FY 2001 included modernization of heating systems in three large maintenance facilities, installation and replacement of insulation in five large maintenance and storage warehouses, renovations of several exterior buildings, and an energy savings performance contract. This work has laid the cornerstone for future similar improvements in the efficiency of the Army's utility systems, which are expected to yield long-term savings of approximately $12 million. These projects alone have realized savings of almost 72 billion Btu and reduced energy consumption by 9 percent from FY 2000 levels.



Dieter Haertel



Paul Lindemer

David A. McPhee
Mari French
Jerry Kerns
Norman Tancrator
Chung S. Kim P.E.
452nd Support Group
United States Air Force
March Air Reserve Base, California
909-655-4582

The 452nd Air Mobility Wing at March Air Reserve Base (ARB) is an established leader in energy conservation due to the hard work and dedication of its Base Energy Team. During FY 2001 the Team negotiated with a local utility to perform free energy audits of 37 facilities, which led to the retrofit of thousands of outdated fluorescent and incandescent lighting fixtures. This retrofit has saved the Base approximately $240,000 per year. As a result of the Team's involvement with a demand side management project that introduced applications for available rebate programs, March ARB now enjoys a utility reimbursement program that realizes considerable savings in Base operational and maintenance costs. Gas leak repairs, water conservation efforts, and an energy management control system upgrade have further added to March ARB's success during FY 2001.

(left to right) David A. McPhee, Mari French, Norman Tancrator, Jerry Kerns, and Chung Kim.

Roscoe D. Johnson
Leto B. Leonen
Howard K. Ashworth
David B. Swartz
Abraham F. Cicchetti
Merritt Island Tracking Station
National Aeronautics and Space Administration
Kennedy Space Center, Florida
321-867-9652

With a restricted agency budget, the Merritt Island (MILA) Tracking Station Facilities small group sought ways to reduce costs without diminishing the performance of the MILA Tracking Station, which is crucial for space shuttle launch and landing support. The group demonstrated that they could make low cost/no cost energy reductions throughout the station without affecting daily operations. Among the team's methods were: replacement of 5-ton air conditioners with 3-ton units; rescheduling generator run time; replacing five exhaust fans with three energy-efficient fans; installing pull string switches for individual control of overhead lights; training personnel to turn on lights only as needed; and reducing cooling and heating levels in unoccupied buildings without equipment cooling requirements. By effective use of these low cost and no cost energy reduction initiatives, the group succeeded in reducing costs during FY 2001 by almost $100,000 and 14 billion Btu.

(left to right) Abraham Cicchetti, Roscoe Johnson, Howard Ashworth, David Swartz, and Leto Leonen.

Ernest L. Fossum
Richard J. Horsley
Marshall G. Knight
Mike Nitzel
Engineering Research Office Building
ENERGY STAR® Label for Buildings
Department of Energy
Idaho Falls, Idaho
208-526-2513

Since the construction of the Engineering Research Office Building, Idaho National Engineering and Environmental Laboratory energy management engineers worked closely with the Building's facility engineer to develop and implement projects that incorporate energy-efficient technologies into existing systems and to further enhance the performance of the original building design. Projects included installation of occupancy-sensing lighting controls, analysis of HVAC systems to optimize energy performance, and change of the janitorial shift so that the building could be fully unoccupied for a greater period of time. DOE's Departmental Energy Management Program provided funding to complete these projects. These efforts ultimately will save more than $23,000 and in excess of 1 billion Btu per year. This in turn has qualified the Engineering Research Office Building for an ENERGY STAR® Label for Buildings certification, which signifies not only energy efficiency in the building, but also tenant comfort and productivity.

(left to right) Ernest L. Fossum, Marshall G. Knight, Mike Nitzel, and Richard J. Horsley.

Energy Efficiency/Energy Management Awards to Individuals

Kathie Nell
Idaho National Engineering and Environmental Laboratory
Department of Energy
Idaho Falls, Idaho
208-526-0682

During FY 2001, Kathie Nell creatively reinvented employee and public awareness programs for energy and water conservation at DOE's Idaho National Engineering and Environmental Laboratory (INEEL). Ms. Nell's actions included authoring a monthly newsletter and distributing it to all 6,000 employees. She also developed a traveling display for public events featuring DOE energy and water conservation achievements and INEEL conservation programs. Ms. Nell organized the design and construction of a small working model which demonstrates passive solar and photovoltaic technologies. Both the display and the solar model enjoyed a warm reception at Earth Day and other community events. Ms. Nell's efforts have resulted in increased employee appreciation of in-house conservation measures and interest from the public in DOE programs.

Jeff Seaton
Arizona Army National Guard
Department of the Army
Phoenix, Arizona
602-267-2743

In an organization where customer satisfaction and compliance with energy requirements are the primary directives, Jeff Seaton's steadfast commitment to energy conservation stands out. Mr. Seaton led the Arizona Army National Guard to implement lighting retrofits, distributed generation projects featuring three 200-kilowatt fuel cells and 12 kilowatts of photovoltaic arrays, daylighting systems at two aviation hangars, and water saver pumps. Mr. Seaton also stayed abreast of the latest energy technologies by attending a number of conferences, sharing the knowledge he gained with employees through a newsletter, and other outreach efforts. At the Arizona Army National Guard, Mr. Seaton's endeavors resulted in savings of almost $179,000 and more than 8 billion Btu.

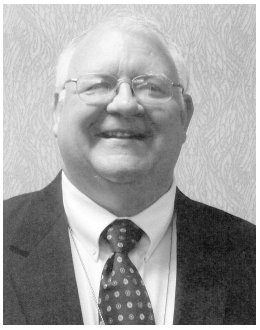
Daniel B. Wood
Directorate of Public Works
Department of the Army
Fort Eustis, Virginia
757-878-2489

During FY 2001, Fort Eustis modernized its central energy plant and completed its annual peak electrical demand and fuel management programs. Daniel Wood was a driving force in planning, programming, and project development for the central energy plant modernization. Mr. Wood oversaw the upgrade of seven of its central heating plants while decentralizing six other plants. The project allowed for the elimination of tremendous distribution system losses and avoided the cost of replacing steam and condensate distribution lines. As a result of Mr. Wood's hard work, Fort Eustis reduced energy consumption and the cost of natural gas/fuel oil by more than 81 billion Btu and more than $670,000.

Innovative/New Technology Awards to Small Groups

Jimmy Hale
Carol Jones, LC
John Murphy
Chun Park
Darwin Simmons
Atrium Lighting Retrofit Group
General Services Administration
Atlanta, Georgia
404-331-6492

The atrium at the Peachtree Summit Building serves as the entrance to the General Service Administration's 845,000 square-foot Atlanta Federal office building. To brighten the atrium, the building's Property Management Center undertook the project of retrofitting the entire ceiling system. The Center conducted an in-depth technical analysis and considered all viable advanced lighting options. The final selection was the Icetron, an electrodeless lamp. With a life of 100,000 hours, the Icetron lamp system would last more than 11 years (at maximum operation—24 hours a day, 7 days a per week). The new lighting design uses 5,854 watts of electricity and reduces energy use by 42 percent compared to the original installation which used 10,030 watts. Furthermore, the Icetron saves an additional $6,462 during the life of the system compared to maintaining the old metal halide equipment. Additional savings will result with the use of daylighting controls. The lighting levels in the atrium area have increased by approximately a third, and vertical areas previously without light have been illuminated. During 2001, total energy saved was $1,829 and nearly 125 million Btu.



Jimmy Hale

Carol Jones

John Murphy

Chun Park

Darwin Simmons

Mark Levi
Stephen May
David McBride
Mary Ann Piette
Dan Traill
Pacific Rim Region
GEMNet Group
General Services Administration
San Francisco, California
415-522-3378

The General Services Administration's (GSA's) Pacific Rim Region has developed the GSA Energy Maintenance Network (GEMNet) to save energy and reduce operational costs by optimizing, monitoring, benchmarking, and supporting its facilities. The network uses a common database management system to integrate maintenance management with real-time systems such as building automation systems. The database and ancillary applications are used as a technical support framework for building diagnostics, management, and operator information, and as a platform for participation in special programs such as electricity demand relief. In fact, this technology helped launch GSA Pacific Rim Region's response to electricity shortages in California. In spring 2001, the Pacific Rim Region successfully participated in the California Energy Commission's Demand-Responsive HVAC Grant Program for four of its buildings and the California Independent System Operator's Demand Relief Program for two buildings. Energy savings of approximately 5 percent are likely, primarily from preservation of efficiencies achieved through ancillary retro-commissioning and building automation system improvements. If the 5 percent energy reduction comes from use of the GEMNet infrastructure, this would lead to annual regional cost savings of around $1.25 million and 45 billion Btu.

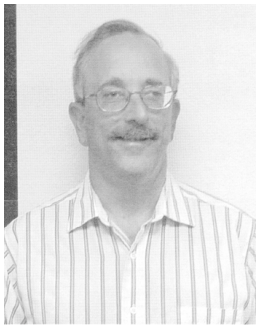
Richard Butterworth
Linda L. Collins
Mark Ewing
Brian K. Magden
E-Commerce Reverse Auction Group
General Services Administration
Washington, DC
202-205-5049

As a result of deregulation and the turbulent energy market in New York State, the General Services Administration, Energy Center of Expertise sought to mirror how industry procures and sells energy as well as to meet Federal acquisition regulations. The Energy Center of Expertise awarded a delivery order to Science Applications International Corporation to use the World Energy Solutions electronic web-based reverse auction platform. The Center's first e-commerce web-based energy procurement provided a quicker, more efficient way to solicit competitive bids on energy supply. The reverse auction electricity procurement avoided duplications of effort, saved time and resources and allowed Federal agencies and organizations to focus their attention on critical missions. The Center's $165 million energy procurement spanned 6 utility service territories and involved 20 competitive electricity suppliers, 10 qualified agencies, and approximately 900 electric accounts. It resulted in the fulfillment of approximately 624 gigawatthours of annual electricity requirements, which is enough power for 62,000 residential homes for 1 year. In certain service territories there was a 35 percent difference between the highest and lowest bids representing tens of millions of dollars in reduced pricing for GSA and its customers. The deregulated electricity industry in New York State combined with GSA's e-commerce reverse auction will save approximately $24 million over a three year period. This procurement proves that GSA can provide cost-effective solutions for energy services as demonstrated by program growth of approximately 700 percent in 12 months.

(left to right) Brian Magden, Richard Butterworth, Mark Ewing, and Linda L. Collins.

Innovative/New Technology Awards to Individuals

William B. Turner
92 Civil Engineer Squadron
United States Air Force
Fairchild Air Force Base, Washington
509-247-5468



As energy manager at Fairchild Air Force Base, working on a team with Fairchild Civil Engineering, Bonneville Power Administration, and building facility managers, William Turner oversaw the design and construction of a $2.1 million demand side management (DSM) energy savings project, and initiated a $15.2 million energy savings performance contract (ESPC) project. The DSM project involved installing light pipe technology and infrared radiant heating in an 11-acre building, which will save almost 2.5 gigawatt hours of electricity and more than 26 billion Btu of natural gas annually. In addition, Mr. Turner's efforts dramatically improved lighting levels. The ESPC project will replace the central steam plant with distributed heating systems for 79 buildings, saving 236 billion Btu of natural gas annually.

Effective Program Implementation and Management Awards to Organizations

Naval Station Guantanamo Bay
Department of the Navy
Guantanamo Bay, Cuba
011-5399-4125

Naval Station Guantanamo Bay maintains self-sufficient water and energy operations, producing 1 million gallons of water and more than 250 megawatt hours of electricity daily. During FY 2001, the Station began to realize enormous energy savings. Through more than $12 million in conservation investments that were largely focused on the repair and renovation of the Base's power and water production plants, the Station saved more than 300 billion Btu, reducing its energy demand by 22 percent from FY 2000 levels. These accomplishments resulted in energy budget savings of more than $1.8 million. The Station also agreed to move ahead with a $9.6 million wind turbine project that will save an additional $1.26 million per year. Guantanamo Bay's conservation programs result from comprehensive planning and are built on a foundation of mission awareness, vision, and training.

Norfolk Naval Shipyard
Department of the Navy
Portsmouth, Virginia
757-396-9629

During FY 2001, the Norfolk Naval Shipyard made great strides in improving energy efficiency, employing energy saving technologies and best practices, raising energy awareness, and providing exemplary energy and water conservation leadership. The Shipyard upgraded equipment based on the energy manager's standard operating practice of reviewing designs and purchasing recommendations to put energy efficiency at the forefront of decision-making. Through the implementation of more than $2.8 million in upgrades to office and industrial HVAC, lighting, steam infrastructure, and other industrial energy uses, the Shipyard energy managers saved more than $850,000 and 61 billion Btu in annual energy use.

The Partnership for Energy Performance
at Fort Detrick
The National Cancer Institute
Department of the Army
Frederick, Maryland
301-846-1087

The Partnership for Energy Performance (PEP), a unique performance contracting initiative at Fort Detrick, includes a dedicated group of employees from Allegheny Power, the National Cancer Institute, the U.S. Army Garrison, and SAIC Frederick. This team has successfully managed $25 million in facility improvements for energy reduction, with guaranteed energy savings during the contract term exceeding $60 million. Some of the project's completed facility improvements include boiler replacement, insulation, lighting retrofits, and water conservation measures. Through this project, the PEP team has demonstrated that diverse groups that share a Federal facility can work together towards a common goal. This project is also unique because the stakeholders in the project created a mission statement and community outreach program before a single energy audit was completed.

(left to right) Lt. Col. Donald F. Archibald, Dennis J. Dougherty, Gary Happel, and Darcy L. Immerman.

Effective Program Implementation and Management Awards to Small Groups

Richard Brisbois
Janice K. Moyer
David C. Wynecoop Memorial Clinic
Energy
Management Program
Indian Health Service
U.S. Department of Health & Human
Services
Wellpinit, Washington
509-258-4517

This team at the David C. Wynecoop Memorial Clinic has diligently pursued and implemented highly successful energy management practices with limited personnel and operational resources. Their innovative approach and creative use of resources at the Clinic has resulted in a 68 percent reduction in energy intensity. Specific projects implemented include replacement of inefficient heat pumps, expansion of HVAC zoning to optimize operational control, installation of energy-efficient lighting and windows, and retrofit of plumbing fixtures with low-flow models. The energy savings realized at the facility have enabled the Clinic, an energy intensive facility, to far exceed the 2010 energy reduction goal of 25 percent, compared to a 1990 baseline. The conservation projects not only contributed to a cleaner environment and a more pleasing atmosphere for employees, but also saved energy and valuable taxpayer dollars that could be redirected to patient care—the ultimate mission of the Clinic.

Marcos Irizarry
Claudia Montijo-Wentz
Zoia Rose
Jones Tong
Mark Zulim
San Francisco Mint Energy Performance Team
Department of the Treasury
San Francisco, California
202-622-0043

In order to meet and exceed the Federally mandated energy reduction goals set forth in Executive Order 13123, the San Francisco Mint Energy Performance Team continually strives to find new ways to conserve energy throughout the facility. The Team reduced energy costs and consumption at the Mint's largest coin production plant by more than 11 percent by implementing an aggressive energy program. The program saved the facility 4.6 billion Btu in energy consumption, reduced water consumption by almost 1.7 million gallons, reduced carbon emissions by 116 metric tons, and saved the facility more than $100,000 in avoided costs during FY 2001. The energy program managed by the Team includes an energy newsletter and a bulletin board containing energy saving tips. The Team also has prepared an energy plan for the facility and has included procurement procedures that require contract clauses for new equipment to be energy-efficient.

(left to right) Mark Zulin, Jones Tong, Claudia Montijo-Wentz, and Zoia Rose (Marcos Irizarry not pictured).

John Gadley
John Havens
Emory Lehman
Tim Walker
Washington Army National Guard
Tacoma, Washington
253-512-7905

This team at the Washington Army National Guard has been working on a long-term program to reduce energy consumption and costs through a series of energy conservation measures. Projects have included the installation of energy management systems, relighting programs, installation of more efficient boilers, and the implementation of intelligent new construction practices. As National Guard buildings undergo retrofits, or as new National Guard buildings are designed, this team carefully studies the lighting, heating, and cooling systems to ensure that they are efficiently sized to match the building's energy load and maximize energy efficiency. The team also has performed hands-on demonstrations of its utility tracking software and energy management systems to state agencies and other facilities management groups. The savings in avoided energy costs during FY 2001 exceeded $1.3 million, and the avoided energy use was more than 113 billion Btu.

Exceptional Service Awards to Individuals

John B. Nerger
Department of the Army
Washington, DC
703-697-4221

John Nerger's leadership and visionary thinking has contributed to the Army's secure energy future by encouraging the use of clean, renewable technologies, increasing energy efficiency in facilities, and promoting energy awareness at Army facilities and housing worldwide. Under Mr. Nerger's leadership at the Army Facilities and Housing Directorate, the Army developed a strategic energy conservation plan that achieved more than $17 million in energy savings and reduced almost 2 trillion Btu of energy during FY 2001. The plan has a multi-faceted approach consisting of several interrelated initiatives, which include awareness, energy management, training, energy engineering and project development efforts, project implementation, new contracting standards, and demonstrations of innovative technologies. Mr. Nerger's support and commitment to the Army Facilities Energy Program has been crucial in ensuring efficient energy management throughout the Army. The structure he has chosen for the execution of the energy plan allows commanders the flexibility to create their own unique energy programs, which fosters cooperation from most Army units and results in greater overall energy and cost savings throughout the agency.

Lieutenant Commander
Wade B. Wilhelm, CEC
Department of the Navy
San Diego, California
619-556-7013

Lieutenant Commander Wade Wilhelm is recognized for his strong leadership and outstanding achievements in directing the energy and utilities management programs for the Navy Region Southwest and the Navy Public Works Center, San Diego. Lieutenant Commander Wilhelm carried out several energy programs, projects, and other initiatives which helped alleviate the cost and operational impacts of uncontrolled electricity prices and rolling blackouts that characterized the California energy crisis. Through innovative energy management techniques, an aggressive energy awareness and training campaign, and a series of new energy policies, Lieutenant Commander Wilhelm's efforts have cut Navy shore facilities' electrical demand by up to 30 percent. Lieutenant Commander Wilhelm also led one of the largest and most aggressively financed energy programs in the Federal government. He helped develop and award more than $48 million in energy project investment during FY 2001. The program consists of almost $26 million in utility energy service contracts, and more than $22 million in energy savings performance contracts.

Louis R. Harris, Jr. Award

Dave Guebert, PE, CEM
San Diego Gas & Electric
San Diego, California
858-654-1578

Dave Guebert's dedication and leadership have reinforced and strengthened partnerships between the U.S. Navy and its utilities. A collaborative Federal partnership with San Diego Gas & Electric established a broad-based alliance to address not only the mutually beneficial opportunities of utility energy service contracting, but also many other critical energy issues currently important in Southern California. Thanks to Mr. Guebert's leadership and team-building skills, Navy Region Southwest and Sempra Energy Utility Companies are continuing to meet the energy needs of the Federal government. Additionally, Mr. Guebert has played a key role in the privatization of more than 30 installations and public/private venture initiatives for more than 30,000 military families in government housing. Mr. Guebert has also promoted the use of new energy-efficient technologies such as fuel cells and micro-turbines, and renewable energy sources such as photovoltaics and wind. His support for the use of alternate fuel vehicles has been absolutely crucial in Southern California military organizations' ability to maintain their outstanding readiness level and ability to deploy on short notice.

Edward D. Thibodo
Department of the Navy
San Diego, California
619-532-4243

As the lead contracting specialist for the entire Southwest Division, Mr. Thibodo has negotiated and implemented more than $116 million in utility energy service contracts for the Navy, with more than $18 million in savings in the last two-and-a-half years. These savings are in the form of energy, water, and maintenance costs. Mr. Thibodo has been directly responsible for various energy projects including: interior and exterior lighting upgrades; thermal energy storage; steam and condensate system upgrades; refrigerant system upgrades; elimination of ozone depleting refrigerants; ultra low flow plumbing fixture installations; compressed air system upgrades; leak repairs on the base-wide system; high efficiency compressor installation; boiler plant modifications; and weatherization of walls and ceilings. Mr. Thibodo consistently demonstrates superior leadership, technical skill, and innovative management. His team building efforts have been a model and inspiration to the Southwest Division community as well as the numerous contractors and utilities with whom he is involved.

ENERGY STAR® Building Award for Superior Performance

ENERGY STAR® is a symbol of energy efficiency established by the U.S. Environmental Protection Agency and DOE. Buildings that are among the top 25 percent nationwide in terms of energy performance (earning a bench marking score of 75 or greater) and maintain an indoor environment that conforms to industry standards can qualify to receive the ENERGY STAR® label for buildings.

During FY 2001, the following building, operated and maintained by the General Services Administration, achieved a score of 97:

James C. Coreman Federal Building
Van Nuys, California

The superior performance of this Federal building reflects the leadership, dedication, and contributions of the GSA building designers, operators, and managers who are responsible for the Federal government's real property assets.

A number of energy projects were implemented at the Coreman Federal Building during FY 2001. These projects include lighting retrofits, lighting controls, HVAC DDC controls, installation of variable frequency drives, a water conservation project inclusive of a new cooling tower, and replacement of restrooms fixtures. Additionally, the existing elevator motor generator sets are being replaced with new energy-efficient variable voltage, variable frequency solid state motor drive units. Future projects will include a 121-kilowatt peak solar photovoltaic system at the Coreman Federal Building.

2002 FEDERAL ENERGY AND WATER MANAGEMENT AWARDS

Certificates of Recognition

Energy Management

Individual
Morgan Benson, Department of the Army
Stephen L. Brothers, Tennessee Valley Authority
Bachittar S. Juneja, United States Postal Service
Greg I. Leifer, Department of Health and Human Services
Adam Scully, P.E., Department of Health and Human Services

Small Group
David C. Abbott, 75th Civil Engineer Squadron, United States Air Force
Daniel R. Ferris, 75th Civil Engineer Squadron, United States Air Force
Paul Johnson, 75th Civil Engineer Squadron, United States Air Force
Terry Lowe, 75th Civil Engineer Squadron, United States Air Force
Kent J. Nomura, 75th Civil Engineer Squadron, United States Air Force
Steve Barstatis, Fermilab Pumping Retrofit Group, Department of Energy
Steve Dixon, Fermilab Pumping Retrofit Group, Department of Energy
Gilbert Gregory, Fermilab Pumping Retrofit Group, Department of Energy
Maurice Paul, Fermilab Pumping Retrofit Group, Department of Energy
Duane Plant, Fermilab Pumping Retrofit Group, Department of Energy
Jennifer G. Cooper, Kadena Air Base HVAC Group, United States Air Force
Marieta Higa, Kadena Air Base HVAC Group, United States Air Force
Hirayasu Ikuhide, Kadena Air Base HVAC Group, United States Air Force
Jeff Noorda, Kadena Air Base HVAC Group, United States Air Force
Bernard Avon, National Energy Technology Lab "Greener Pastures" Group, Department of Energy
Joseph Kanosky, National Energy Technology Lab "Greener Pastures" Group, Department of Energy
Gregory Fudala, P.V. McNamara High Efficiency Chiller Replacement Group, General Services Administration
Chris Mourgelas, P.V. McNamara High Efficiency Chiller Replacement Group, General Services Administration
Glenn Ross, P.V. McNamara High Efficiency Chiller Replacement Group, General Services Administration
Cecilia Saylor, P.V. McNamara High Efficiency Chiller Replacement Group, General Services Administration
Allen Wright, P.V. McNamara High Efficiency Chiller Replacement Group, General Services Administration

Organization
374th Civil Engineer Squadron, Yokota AB, Japan, United States Air Force
Defense Commissary Agency, Department of Defense
John H. Glenn Research Center, Lewis Field, National Aeronautics and Space Administration
Kunsan Air Base, Korea, United States Air Force
Misawa Air Base, Japan, United States Air Force
Naval Air Station Whidbey Island, Department of the Navy
Naval Base Coronado, Department of the Navy
Naval Base Point Loma, Department of the Navy
Naval Undersea Warfare Center, Newport, Rhode Island, Department of the Navy
Naval Weapons Station Yorktown, Department of the Navy
Navy Public Works Center, San Diego, Department of the Navy

U.S. Army TACOM-ARDEC, Department of the Army
U.S. Geological Survey, Department of the Interior

Renewable Energy

Individual
Dennis M. Klekar, National Aeronautics and Space Administration

Small Group
Amy Hoffer, Edwards AFB Renewable Energy Group, United States Air Force
Mike Keeling, Edwards AFB Renewable Energy Group, United States Air Force
Jeff Renshaw, Edwards AFB Renewable Energy Group, United States Air Force
Michael J. Santoro, Edwards AFB Renewable Energy Group, United States Air Force
Paul C. Weaver, Edwards AFB Renewable Energy Group, United States Air Force
Julie Berthold, Great Lakes Region, General Services Administration
Larry Lewis, Great Lakes Region, General Services Administration
Marine Corps Recruit Depot, Parris Island, United States Marine Corps

Alternative Financing

Individual
Juergen Engeter, Department of the Army
Gregory P. Skaggs, United States Air Force

Small Group
David Gillikin, Cherry Point Heat Pump Group, United States Marine Corps
Clyde Hoelzer, Cherry Point Heat Pump Group, United States Marine Corps
Joseph Jackson, Cherry Point Heat Pump Group, United States Marine Corps
Robert Lawrence, Cherry Point Heat Pump Group, United States Marine Corps
Vince Heuser, Fort Knox Nolin UESC Small Group, Department of the Army
Tom McGrew, Fort Knox Nolin UESC Small Group, Department of the Army
Gary Meredith, Fort Knox Nolin UESC Small Group, Department of the Army
Bill Blount, Fort Sam Houston ESPC Group, Fort Sam Houston, Texas
William Core, Fort Sam Houston ESPC Group, Fort Sam Houston, Texas
Dan Jackson, Fort Sam Houston ESPC Group, Fort Sam Houston, Texas
Robert Jay, Fort Sam Houston ESPC Group, Fort Sam Houston, Texas
Gene Rodriguez, Fort Sam Houston ESPC Group, Fort Sam Houston, Texas
Robert B. Clark, INEEL Research Center ESPC Group, Department of Energy
Ernest L. Fossum, INEEL Research Center ESPC Group, Department of Energy
Douglas A. Hilde, INEEL Research Center ESPC Group, Department of Energy
Rodney E. Remsburg, INEEL Research Center ESPC Group, Department of Energy
Ralph Armstrong, U.S. Army Europe ESPC Group, Department of the Army

Peter Klein, U.S. Army Europe ESPC Group, Department of the Army
Fred Louis, U.S. Army Europe ESPC Group, Department of the Army
James Paton, U.S. Army Europe ESPC Group, Department of the Army
Clifton Rope, U.S. Army Europe ESPC Group, Department of the Army

Organization
Fermilab Alternative Financing Group, Department of Energy
Fort Belvoir ESPC Group, Department of the Army
Oak Ridge Alternative Financing Group, Department of Energy
United States Military Academy, Department of the Army

Mobility Energy

Organization
USS COWPENS (CG-63), Department of the Navy
USS PORTER (DOG-78), Department of the Navy

Water Management

Individual
Mary Jane Brady, United States Air Force

Small Group
Ron Bell, Dickinson Missile Tracking Annex Water Conservation Group, National Aeronautics and Space Administration
Ray Coffman, Dickinson Missile Tracking Annex Water Conservation Group ,National Aeronautics and Space Administration
Jim Pollard, Dickinson Missile Tracking Annex Water Conservation Group, National Aeronautics and Space Administration
Bill Blount, Fort Sam Houston Water Reuse Group, Department of the Army
Frank Carbonel, Fort Sam Houston Water Reuse Group, Department of the Army
Albert Motz, Fort Sam Houston Water Reuse Group, Department of the Army
Jackie Schlatter, Fort Sam Houston Water Reuse Group, Department of the Army
Dana G. Bolles, Industrial Wastewater Project Team, National Aeronautics and Space Administration
G. Joseph Hartman, Industrial Wastewater Project Team, National Aeronautics and Space Administration
William Joiner, Industrial Wastewater Project Team, National Aeronautics and Space Administration
Daniel N. Petroff, Industrial Wastewater Project Team, National Aeronautics and Space Administration
Steve Butala, Marine Corps Base Hawaii, United States Marine Corps
June Cleghorn, Marine Corps Base Hawaii, United States Marine Corps
Floyd Hustace, Marine Corps Base Hawaii, United States Marine Corps
Ken Nakasone, Marine Corps Base Hawaii, United States Marine Corps

Organization
Fermilab, Department of Energy
Hickam Air Force Base, United States Air Force
Marine Corps Base Camp Butler, United States Marine Corps

Innovative and New Technology

Individual
Richard Crowson, Department of State
Austin W. Rester, Department of the Army

Small Group
John Buckley, Environmental Protection Laboratory, General Services Administration
James Devir, Environmental Protection Laboratory, General Services Administration
Debra Fournier, Environmental Protection Laboratory, General Services Administration
Jay Hawkes, Environmental Protection Laboratory, General Services Administration
Michael Strobel, Environmental Protection Laboratory, General Services Administration
James Kuo, Steam Turbine Generator Group, General Services Administration
Carol Lautzenheiser, Steam Turbine Generator Group, General Services Administration
Guy Lunay, Steam Turbine Generator Group, General Services Administration
Kevin Myles, Steam Turbine Generator Group, General Services Administration
Mark Trimarchi, Steam Turbine Generator Group, General Services Administration

Organization
Naval Station Everett, Department of the Navy

Program Implementation and Management

Individual
William G. King, Jr., United States Air Force

Small Group
Karen Thomas, Commerce and NREL Strategic Implementation Group, Department of Commerce
James E. Woods, Commerce and NREL Strategic Implementation Group, Department of Commerce

Organization
37th Training Wing, Lackland Air Force Base, United States Air Force
82nd Civil Engineer Squadron, Sheppard Air Force Base, United States Air Force
Northwest Arctic Region, General Services Administration
Naval Air Station Corpus Christi, Department of the Navy
Naval Base San Diego, Department of the Navy
Naval Station Rota, Spain, Department of the Navy
Naval Surface Warfare Center, Dahlgren, Department of the Navy
Portsmouth Naval Shipyard, Department of the Navy
Savannah River Operations Office, Department of Energy
U.S. Army South–Fort Buchanan, Department of the Army

AEE Seminars Address Federal Facility Training Needs

The Association of Energy Engineers (AEE) is pleased to offer a variety of training seminars and certification programs in 2003 including Certified Energy Manager, distributed generation, lighting, power quality, and facility and building efficiency strategies. AEE seminars offer Continuing Education Units (CEU) and Professional Development Hours (PDH) credit, which can be applied toward training requirements for Professional Engineering license renewal in most states, as well as toward maintaining all AEE professional certifications.

AEE training seminar platforms include:

- **Live Seminars**. AEE will hold a variety of professional seminars and certification training courses across the United States throughout the 2003 calendar year. Select "Live Seminars" in the Category Browse menu at www.aeecenter.org/seminars to view all of AEE's live programs.
- **In-House Seminars**. Most of AEE's live seminars and certification programs can also be presented in-house at your location. In-house training is a cost- effective, targeted, and a team building tool.
- **Real-Time Online Seminars**. New for 2003, AEE will be offering real-time interactive online seminars on a variety of subjects. This exciting new format allows you to participate live from your office, home, or anywhere you have access to the Internet and a phone. Select "Online Seminars" in the Category Browse menu at www.aeecenter.org/seminars to view all of AEE's real-time and self-paced distance learning programs (more coming soon!).
- **Self-Paced Online Seminars**. AEE has customized several seminars to allow you to take advantage of at-home study utilizing the power of the Internet. These courses enable you to learn at your own pace, while providing you the opportunity to interact with the course instructor and classmates via regularly scheduled chat sessions. Select "Online Seminars" in the Category Browse menu at www.aeecenter.org/seminars to view all of our real-time and self-paced distance learning programs.

For more information and AEE's 2003 calendar of seminars, please see www.aeecenter.org/seminars.

Plan Now for March 2003 FEMP Teleworkshops

FEMP's free updated "Energy Management Telecourses" will take place March 4, 11, and 18, 2003. These courses are presented using state-of-the-art distance learning technology. The information presented is designed to assist facility management personnel in achieving EPACT and Executive Order 13123 objectives for energy and water savings and alternative financing. Using a live, interactive format, brief lectures will be followed by live question and answer sessions, problem solving, and web references. All three sessions are from 12-4 p.m. EST:

- March 4 – Part 1: Life-Cycle Costing - Basic; Buying Energy Efficient Products.
- March 11 – Part 2: Operations and Maintenance Management; Water Resource Management.
- March 18 – Part 3: Energy Savings Performance Contracting; Utility Energy Services Contracting.

Register now at www.energyworkshops.org/femp/ or call 865-777-9869. If you need help finding a downlink location or if you wish to sponsor a downlink site, please send an e-mail to hbs@icx.net or call Heather Schoonmaker at 865-777-9869.

FEMP Training Reminders

Life-Cycle Costing (Combined: Basic and Project-Oriented)
February 4-5, 2003
Honolulu, HI
www.pnl.gov/femp/
509-372-4520

Fundamentals of Indoor Air Quality
February 5-7, 2003
San Francisco, CA
www.aeecenter.org/seminars/
770-447-5083, ext. 223

Life-Cycle Costing (Combined: Basic and Project-Oriented)
February 6-7, 2003
Honolulu, HI
www.pnl.gov/femp/
509-372-4520

Super Energy Savings Performance Contracting Workshop
February 25-26, 2003
San Francisco, CA
www.eren.doe.gov/femp/newsevents/calendar.shtml
703-243-8343

Measurement & Verification for Super ESPC Projects
February 26, 2003
San Francisco, CA
www.eren.doe.gov/femp/newsevents/calendar.shtml
703-243-8343

Energy Management Telecourse: Part 1 (Life-Cycle Costing–Basic; Buying Energy Efficient Products)
March 4, 2003
www.energyworkshops.org/femp
865-777-9869

Energy Management Telecourse: Part 2 (O&M Management; Water Resource Management)
March 11, 2003
www.energyworkshops.org/femp
865-777-9869

Energy Management Telecourse: Part 3 ESPC; UESC
March 18, 2003
www.energyworkshops.org/femp
865-777-9869

Conferences

NASEO 2003 Energy Outlook Conference
February 10-12, 2003
Washington, DC
www.naseo.org/events/default.htm
703-299-8800

Greenprints 2003
February 12-15, 2003
Atlanta, GA
www.southface.org
404-872-3549, ext. 114

Gas Turbines for a National Energy Infrastructure
February 26-27, 2003
Arlington, VA
www.asme.org/igti/index.html
404-847-0072

Power Systems 2003 Conference
March 12-14, 2003
Clemson, SC
www.ces.clemson.edu/powsys2003/
1-888-654-9020

Building Energy 2003 Conference and Trade Show
March 12-15, 2003
Boston, MA
www.nesea.org/buildings/be/
413-774-6051

National Facilities Management and Technology Conference/Exhibition
March 18-20, 2003
Baltimore, MD
www.nfmt.com
630-271-8210

Distributed Generation and On-Site Power Conference
March 24-26, 2003
Houston, TX
www.dist-gen.com/
508-823-5797

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For information on topics not listed here, call the FEMP Help Desk at 1-800-363-3732.

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